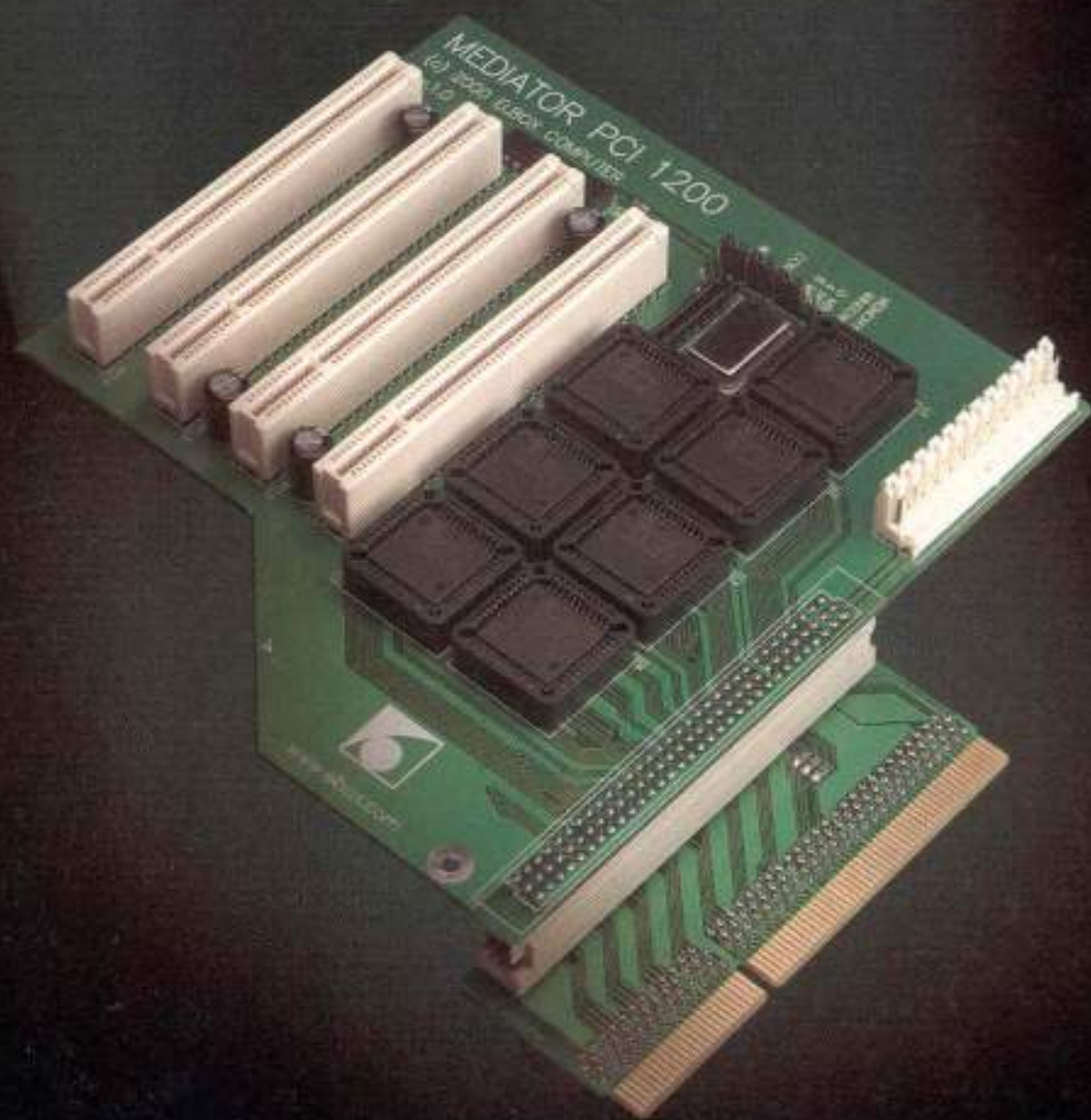# ELBOX

MEDIATOR
PCI

MEDIATOR PCI 1200

User Manual

1. Welcome to MEDIATOR PCI 1200

Thank you for purchasing the MEDIATOR PCI 1200 busboard. Please read the manual carefully before the installation.

1.1. Hardware Features

MEDIATOR PCI 1200 is based on ELBOX high performance core logic implementation optimised for all Amiga turbo cards in order to deliver high computation performance:

- 4 PCI slots (PCI 2.1 compatible),
- 33 MHz PCI clock (66 MHz with SharkPPC G3/G4 card),
- 32 bits PCI datapatch,
- The busboard is mechanically compatible with Amiga 1200 in E/BOX (Power Tower) and Infinitiv tower cases,
- Transfer rates between PCI devices up to 132 MB/s (264 MB/s with SharkPPC G3/G4 card),
- Ready to run with the existing Amiga 68k and PPC accelerator cards.

Hardware in MEDIATOR PCI 1200 is compatible with all the available turbo cards. MEDIATOR PCI 1200 ensures the maximum possible transfers for each and every configuration of any turbo card to any PCI card. MEDIATOR PCI may offer transfer of data from/to Amiga turbo card at the maximum speed of up to 132 MB/s. The only practical limitation lies in the design of the specific turbo card.

1.2. System Requirements

Minimum configuration:

- Amiga 1200T with PC Power Supply
- Memory expansion with 4 MB Fast RAM installed
- Hard disk drive

Recommended Configuration:

- Amiga 1200T in E/BOX (Power Tower) case
- 68060/50 MHz or 68040/40 MHz turbo card
- 32 MB or more Fast RAM installed on the 68k turbo board

- PCI graphic card
- SharkPPC G3/G4 turbo card
- 64 MB or more SDRAM installed on the SharkPPC G3/G4 turbo board
- Hard disk drive

1.3. Package Contents

Please check that your Mediator PCI 1200 package contains the following items:

- Mediator PCI 1200 busboard
- Passthrough for the CPU expansion slot
- Spacing sleeve and M3 bolt
- Floppy disc with software
- This User's Manual

All Mediator PCI 1200 packages have been checked for completeness and functionality before shipment.

2. Description of Jumpers

2.1. MEDIATOR PCI 1200 Jumpers

MEMORY WINDOW

0 MB	PCI memory space unavailable, access only to PCI I/O space; allows using PCI Ethernet, sound, modem, etc. cards; use of graphic cards disabled.
4 MB	4 GB PCI memory space available through the 4 MB Amiga memory window, access to PCI I/O space and to PCI Memory Space through the 4 MB window; allows using any PCI cards.
8 MB	4 GB PCI memory space available through the 8 MB Amiga memory window; access to PCI I/O space and to PCI Memory Space through the 8 MB window; allows using any PCI cards.

CONFIG   Type of configuration cycles during Amiga's start-up.

WAIT   Adding waitstates during write cycle in Amiga.

2.2. How to Set Jumpers in MEDIATOR PCI 1200

MEMORY WINDOW

Set 0 MB   If you use 8MB of RAM installed in the memory expansion or in the turbo card, configuring this memory in the lower boundary (e.g. M-TEC 1230 turbo card).

Set 4 MB   If you use 4MB of RAM installed in the memory expansion or in the turbo card, configuring this memory in the lower boundary (e.g. M-TEC 1230 turbo card) or if you use the 4 MB PCMCIA memory expansion.

Set 8 MB   If you use 8 MB or more RAM installed in the turbo card configuring this memory in the higher boundary (all the turbo cards for which more than 8MB Fast RAM may be installed e.g. Apollo 1230, Apollo 1240, Apollo 1260, Blizzard 1230, Blizzard 1240, Blizzard 1260, Blizzard PPC, Elbox 1230-II).

CONFIG   Set CLOSED   If you use A1200 with the memory expansion, M-Tec 1230, Elbox 1230, GVP 1230, Apollo 1230, Apollo 1240, Apollo 1260, old Blizzard cards.

           Set OPEN   If you use A1200 with the empty expansion slot, new Blizzard cards.

WAIT   OPEN   For all known turbo/memory expansion cards (default setting).

        CLOSED   Currently not used.

3. Hardware Installation

3.1. Hardware Installation Instructions

This section is intended as a guide for those who are not familiar with the installation of Amiga peripherals and software applications and as a reference for experienced users. Follow the step-by-step instructions and illustrations in this section to pass through the installation process if you are new to installing Amiga peripherals and software applications.

If you are an experienced user in the field, you might as well need this section to guide you for more detailed explanation about specific steps in the installation process.

3.2. Before You Begin

Step 1.   Please make sure that your computer system meets the minimum requirements and that the Mediator PCI 1200 package contents is complete (Refer to System Requirements and Package Contents in Chapter 1).

Step 2.   After confirming that your system meets all the requirements, prepare the necessary tools. You should have an appropriate screwdriver(s) and a container for the screws removed from the system.

Note: For Infinitiv tower case with Infinitiv Power Supply (with one 8-pin plug), you must have an adapter for standard connectors in the PC AT power supply unit with P8-P9 plugs or you must replace the Infinitiv power supply with any standard PC AT power supply.

3.3. Installing Your MEDIATOR PCI 1200

Now you are ready to install the MEDIATOR PCI 1200 busboard and connect the related devices.

1.   Power off your Amiga.
2.   Turn off any external devices that are attached (printer, monitor, etc.).
3.   Disconnect all the cables and connectors from your computer.
4.   Remove the Amiga's tower casing (Refer to your E/BOX or Infinitiv user manual for detailed instructions).
5.   Remove the turbo card (memory expansion) from the processor's connector.
6a. For E/BOX cases:
     −   Disconnect the power supply unit's P8 and P9 plugs from the PSU adapter.
     −   Remove the PSU adapter from the computer (no longer needed).
6b. For Infinitiv tower cases with Infinitiv Power Supply units (8-pin plugs):
     −   Disconnect the Infinitiv's PSU 8-pin plug from the PSU connector.

– Install the passthrough with the P8-P9 plugs into the 8-pin plug in the Infinitiv power supply unit.

7. Unscrew the bolt in the A1200 board to the right of the CPU expansion slot and replace it with a hexagon spacing sleeve.

8. Install the passthrough for the CPU slot into the processor connector.

9. If you have the ELBOX Fast ATA 1200 (Power Flyer) controller installed, connect the ribbons to the controller.

10. Set jumpers in the MEDIATOR PCI busboard based on your configuration (Refer to the chapter 2.2. How to Set Jumpers in MEDIATOR PCI 1200 for detailed instructions).

11. Install the MEDIATOR PCI 1200 board in the connector in the passthrough for the CPU slot.

12. Fix the MEDIATOR PCI 1200 board with the M3 bolt to the spacing sleeve.

13. Connect the PSU's P8 and P9 plugs in the proper power supply connection points in the MEDIATOR PCI 1200 board.

14. Insert cards into PCI slots:
    – Remove the screw and coverplate from the unused expansion slot.
    - Insert the PCI card firmly into the slot.
    – Secure the PCI card by fastening its bracket with the removed screw firmly into the computer chassis.

15. Re-assemble the Amiga case (Refer to your E/BOX or Infinitiv user's manual for detailed instructions).

4. Software Installation

4.1. Installing the Driver

Installing your hardware is not enough for running PCI cards in MEDIATOR PCI 1200 in your Amiga 1200. The following procedures are simple steps for installing your MEDIATOR PCI software drivers.

4.2. Installing the MEDIATOR PCI 1200 Driver

Note: The Installer program (from INSTALL Workbench) must be present in the C: drawer of the booting disk.

1. Boot the computer from its hard disk.
2. Insert the MEDIATOR_PCI_1200 floppy disk into the floppy disk drive.
3. Run MEDIATOR_Install from the MEDIATOR_PCI_1200 floppy disk.

The installation shall proceed in the fully automatic mode. The Installer will copy Mediator System Files (pci.library, Pciinfo and Vendor.txt) and current drivers for PCI devices and will install CyberGraphXV3 with PCI graphic card drivers.

Registration

For e-mail updates of drivers written for PCI cards for the MEDIATOR PCI 1200 busboard, please send a message

to: support@elbox.com
subject: subscribe MEDIATOR PCI 1200 drivers
body: <your name>
                <your mailing address>
                <your DRIVERS version>
                <serial number of your MEDIATOR PCI 1200 busboard (the 7-digit number on the MEDIATOR board and on the box)>
                <company where your busboard was purchased>

Support

If you have any questions about MEDIATOR PCI 1200, please contact our technical support: support@elbox.com

(c) 2000 ELBOX COMPUTER   http://www.elbox.com